
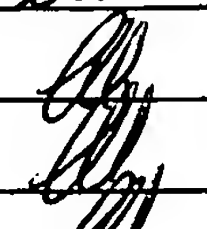
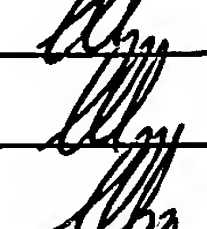
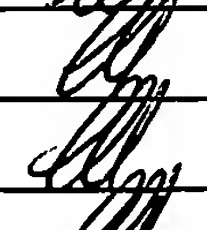
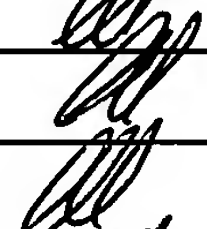
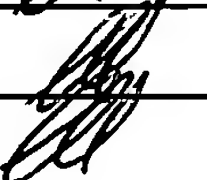
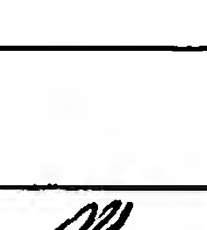
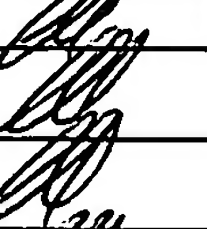
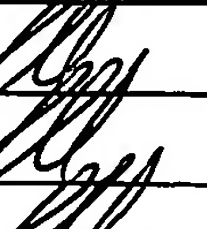
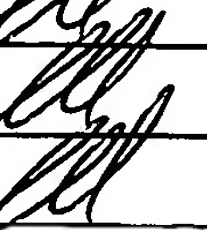
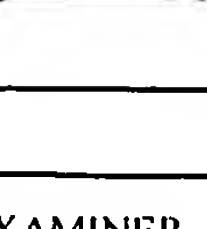
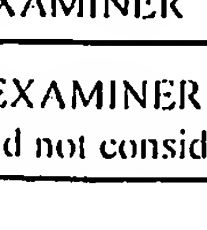



Form PTO-1449

U.S. Department of Commerce  
Patent and Trademark OfficeAtty. Docket No.  
P23704Serial No.  
10/646,859INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT  
(Use several sheets if necessary)Applicant  
Hiroshi NOMURAFiling Date  
August 25, 2003Group  
2851


## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4 5 2 5 0 5 0	06/25/85	OHASHI			
	4 6 4 3 5 5 5	02/17/87	WAKABAYASHI			
	4 7 2 1 9 7 2	01/26/88	WAKABAYASHI			
	4 7 9 2 8 2 2	12/20/88	AKIYAMA et al.			
	5 8 1 8 6 4 7	10/06/98	NISHIO et al.			
	6 0 3 1 9 9 8	02/29/00	SHONO			
	4 4 5 1 1 2 9	05/29/84	IKARI et al.			
	4 6 4 3 5 5 4	02/17/87	OGAWA			
	4 7 7 1 3 0 3	09/13/88	MATSUMOYO et al.			
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	5 1 3 6 3 2 4	08/04/92	TSUBOI et al.			
	5 7 6 5 0 4 9	06/09/98	HASE et al.			
	5 8 3 2 3 2 6	11/03/98	TANAKA			
	6 3 6 6 3 2 3	04/02/02	SHONO et al.			

## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
5 8 1 4 5 9 3 0	08/31/83	JAPAN			
6 1 - 6 9 0 0 2	04/09/86	JAPAN			
6 1 2 7 0 7 3 7	12/01/86	JAPAN			
6 3 1 4 9 6 2 9	06/22/88	JAPAN			
6 4 - 3 4 6 2 3	03/02/89	JAPAN			X
6 - 1 8 7 7 7	01/28/94	JAPAN			X
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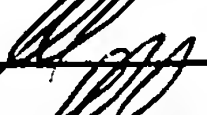
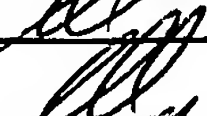
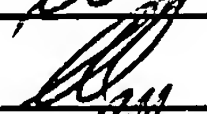



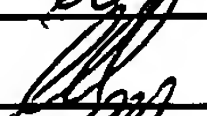


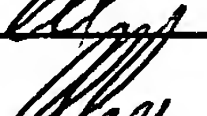
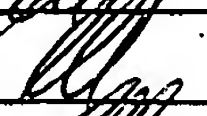

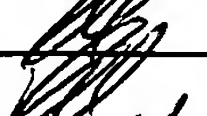
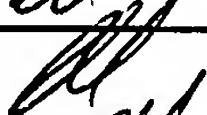


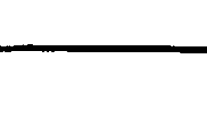



## JAPAN OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER 	DATE CONSIDERED 9/5/04
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\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449		U.S. Department of Commerce Patent and Trademark Office		Atty. Docket No. P23704		Serial No. 10/646,859		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				Applicant Hiroshi NOMURA		<div style="border: 1px solid black; border-radius: 50%; padding: 10px; display: inline-block;">             O I P E              MAY 0 5 2004              PATENT &amp; TRADEMARK OFFICE           </div>		
				Filing Date August 25, 2003				Group 2851
U.S. PATENT DOCUMENTS								
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	2004	/0	0 4 2 0 9 5	03/04/04	NOMURA			
	2004	/0	0 4 2 0 9 3	03/04/04	NOMURA			
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EXAMINER					DATE CONSIDERED 9/5/04			

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)					Applicant Hiroshi NOMURA									
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EXAMINER 										DATE CONSIDERED <u>9/5/04</u>				

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	7	-	2	8	8	7	2	4	10/31/95	JAPAN	X	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)												
		1	English Language Abstract of JP 58-10708.									
		2	English Language Abstract of JP 2003-207709.									
		3	English Language Abstract of JP 2002-277719.									
		4	English Language Abstract of JP 10-282394.									
		5	English Language Abstract of JP 58-162914.									
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